

The Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-14. (Cancelled)

15. (Previously presented) A method for screening for a bioactive agent that binds a cell cycle protein R0101 (SEQ ID NO:2) comprising:

a) combining a protein and a candidate bioactive agent, wherein said protein comprises an amino acid sequence having at least about 95% identity to the amino acid sequence set forth in SEQ ID NO:2 and wherein said protein binds to proliferating cell nuclear antigen (PCNA); and

b) determining binding of said candidate bioactive agent to said protein, wherein binding of the candidate bioactive agent to said protein indicates that the candidate bioactive agent binds to said cell cycle protein R0101.

16. (Previously presented) The method according to Claim 15, wherein said protein comprises the amino acid sequence set forth in SEQ ID NO:2.

17. (Currently amended) The method according to Claim 15, wherein said candidate bioactive agent is a member of a library of candidate bioactive agents and said library is combined with a plurality of cells comprising said protein in step a).

18-19 (Cancelled)

20. (Previously presented) The method according to Claim 15, wherein an activity of said cell cycle protein R0101 is modified on binding said candidate bioactive agent.

21. (Previously presented) The method according to Claim 15, wherein step a) further comprises combining PCNA with said protein and the candidate bioactive agent.